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(54) ACTUATOR USING RESIN COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To constitute the main functioning part of an actuator by using a resin composition, whose heat resistance and hydrolysis resistance are superior.

SOLUTION: This actuator uses a resin composition for converting electrical energy into mechanical energy by inducing distortion in a DC or AC electric field. In this case, (1) acrylic telomer having one kind of a hydroxy group, carboxyl group, or amino group at a molecular terminal, obtained by copolymerizing acrylic ester having an alkyl group whose carbon number is 2 or more and monomer having a functional group selected from among a hydroxy group, carboxyl group, or amino group, (2) a first compound having two of the hydroxy group, carboxyl group, or amino group or more which is reactable with the terminal group of telomer, as necessary, and (3) a second compound having two or more functional groups reactable with the telomer and the first compound, and a resin polymer obtained by copolymerizing at least (1) and (3) are used for the resin composition.

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